

STATEMENT OF WORK
Irrigation Water Conveyance - Flexible Membrane Ditch and Canal Lining (428b)
Wyoming

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design Surveys
 - a. Profile along centerline of ditch or canal.
 - b. Cross-sections as required for volume computations.
 - c. Location and extent of critical soil conditions. (Or on soils map.)
 - d. Location and extent of areas requiring special provisions for drainage.
2. Design documentation that will demonstrate that the criteria in NRCS practice standard have been met and are compatible with other planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan
 - b. List of required permits to be obtained by the client
 - c. Compliance with NRCS national and state utility safety policy (NEM Part 503-Safety, Subpart A - Engineering Activities Affecting Utilities 503.00 through 503.06)
 - d. Practice standard criteria related computations and analyses to develop plans and specifications including but not limited to:
 - i. Capacity
 - ii. Channel velocity/Stability
 - iii. Structure design
 - iv. Membrane details (e.g. type, thickness, cover)
 - v. Drainage requirements
 - vi. Environmental Considerations
 - vii. Quantity computations
3. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to install the practice and obtain necessary permits.
 - a. Profile cross-section and length of ditch to be lined.
 - b. Plan showing alignment
 - c. Structure details (if required).
 - d. Table of quantities.
 - e. Location map. (May be combined with b.).
4. Operation and Maintenance Plan
5. Certification that the design meets practice standard criteria and comply with applicable laws and regulations (NEM Subpart A, 505.03 (a) (3)).
6. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Pre Installation conference with client and contractor.
2. Verification that client has obtained required permits.
3. Staking and layout according to plans and specifications including applicable layout notes.
 - a. Centerline alignment stakes.
 - b. Slope stakes as required.
 - c. Grade stakes with offset as required.
 - d. Location, alignment, and reference stakes for structures.
4. Installation inspection (according to inspection plan as appropriate).
 - a. Actual materials used (Part 512, Subpart D Quality Assurance Activities, 512.33)
 - b. Inspection records
5. Facilitate and implement required design modifications with client and original designer
6. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
7. Certification that the installation process and materials meets design and permit requirements.

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CHECK OUT

Deliverables

1. As-Built documentation.
 - a. Extent of practice units applied
 - b. Drawings
 - c. Profile and cross-section of ditch (maximum 300' interval).
 - d. Pad cross-section.
 - e. Type and thickness of membrane and depth of cover.
 - f. Length of area lined.
 - g. Structure dimensions and elevations (if part of plan).
 - h. Final quantities
2. Certification that the installation meets NRCS standards and specifications and is in compliance with permits (NEM Subpart A, 505.03 (c) (1)).
3. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard - Irrigation Water Conveyance Flexible Membrane Ditch and Canal Lining, 428b
- NRCS National Engineering Manual (NEM).
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook

Note: **State-Specific references may be added as appropriate**